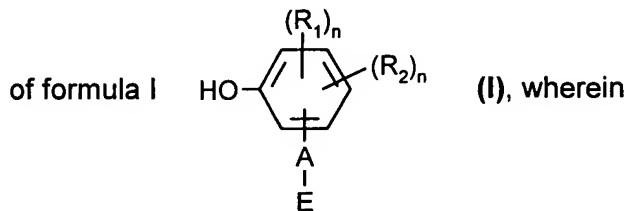


## IN THE CLAIMS

Kindly amend the claims as follows.

1. (currently amended): A process for stabilising and at the same time phase compatibilising ~~plastics~~ or plastic compositions comprising at least two different polymers by incorporating polymeric compounds obtainable by reacting a compound selected from the group consisting of the sterically hindered phenols, ~~sterically hindered amines, lactones, sulfides, phosphites, benzotriazoles, benzophenones and 2-(2-hydroxyphenyl)-1,3,5-triazines~~, which compounds contain at least one reactive group, with a ~~compatibiliser~~ compatibiliser compound which is a polymer containing acid groups, acid anhydride groups, ester groups, epoxy groups or alcohol groups or which compatibiliser compound is a copolymer or terpolymer of ethylene, propylene, vinyl acetate or styrene with acrylic acid.

2. (original): A process according to claim 1, wherein the sterically hindered phenols are compounds



R<sub>1</sub> and R<sub>2</sub> are each independently of the other hydrogen, C<sub>1</sub>-C<sub>25</sub>alkyl, phenyl-C<sub>1</sub>-C<sub>3</sub>alkyl which is unsubstituted or substituted once or several times at the aromatic ring by OH or/and C<sub>1</sub>-C<sub>4</sub>alkyl, unsubstituted or C<sub>1</sub>-C<sub>4</sub>alkyl-substituted C<sub>5</sub>-C<sub>12</sub>cycloalkyl, or phenyl;

n is 1, 2 or 3;

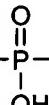
E is OH, SH, NHR<sub>3</sub>, SO<sub>3</sub>H, COOH, -CH=CH<sub>2</sub>, -(CH<sub>2</sub>)<sub>m</sub>-CH(O)-CH<sub>2</sub> or -P(=O)(OH)R<sub>4</sub>;

m is 0 or 1;

R<sub>3</sub> is hydrogen or C<sub>1</sub>-C<sub>9</sub>alkyl;

R<sub>4</sub> is C<sub>1</sub>-C<sub>12</sub>alkyl, or phenyl which is unsubstituted or substituted by one or several C<sub>1</sub>-C<sub>4</sub>alkyl, halogen or/and C<sub>1</sub>-C<sub>18</sub>alkoxy;

- A if E is OH, SH or -CH=CH<sub>2</sub>, is -C<sub>x</sub>H<sub>2x</sub>- , -CH<sub>2</sub>-S-CH<sub>2</sub>CH<sub>2</sub>- ,  
 -C<sub>q</sub>H<sub>2q</sub>-(CO)-O-C<sub>p</sub>H<sub>2p</sub>- , -C<sub>q</sub>H<sub>2q</sub>-(CO)-NH-C<sub>p</sub>H<sub>2p</sub>- or -C<sub>q</sub>H<sub>2q</sub>-(CO)-O-C<sub>p</sub>H<sub>2p</sub>-S-C<sub>q</sub>H<sub>2q</sub>- ;  
 x is a number from 0 to 8;  
 p is a number from 2 to 8;  
 q is a number from 0 to 3;  
 R<sub>1</sub> and n are as defined above; or  
 A if E is -NHR<sub>3</sub>, is -C<sub>x</sub>H<sub>2x</sub>- or -C<sub>q</sub>H<sub>2q</sub>-(CO)-NH-C<sub>p</sub>H<sub>2p</sub>- , wherein x, p and q have the meanings cited above; or  
 A if E is COOH or SO<sub>3</sub>H, is -C<sub>x</sub>H<sub>2x</sub>- , -CH<sub>2</sub>-S-CH<sub>2</sub>- or -CH<sub>2</sub>-S-CH<sub>2</sub>CH<sub>2</sub>- , wherein x has the meaning cited above; or

- A if E is —(CH<sub>2</sub>)<sub>m</sub>—CH——CH<sub>2</sub> , is a direct bond, -C<sub>q</sub>H<sub>2q</sub>-(CO)<sub>m</sub>-O-CH<sub>2</sub>- or -C<sub>x</sub>H<sub>2x</sub>-S-CH<sub>2</sub>- , wherein q, m, x, R<sub>1</sub> and R<sub>2</sub> are as defined above;
- A if E is —P—R<sub>4</sub><sub>4</sub> , is -CH<sub>2</sub>- .  


**3-8. (cancelled).**

**9. (currently amended):** A process according to claim 81, wherein the compatibiliser compound is a polymer with acrylic acid (AA) function, glycidyl methacrylate (GMA) function, methacrylic acid (MAA) function, maleic anhydride (MAH) function or vinyl alcohol (VA) function.

**10. (currently amended):** A process according to claim 81, wherein the compatibiliser compound is a copolymer consisting of which is polyethyleneethylene/-acrylic acid (PE-AA),  
polyethylene ethylene /glycidyl methacrylate (PE-GMA),  
polyethylene ethylene /methacrylic acid (PE-MAA) or  
polyethylene ethylene /maleic anhydride (PE-MAH) or  
 a terpolymer of polyethylene ethylene and vinyl acetate with acrylic acid or  
 a terpolymer of polyethylene ethylene and acrylates with acrylic acid.

**11. (curr ntly amend d):** A process according to claim 81, wherein the compatibiliser compound is a grafted polyethylene or polypropylene copolymer selected from the group consisting of maleic

anhydride grafted to polyethylene vinyl acetate (MAH-g-PE-vinyl acetate), maleic anhydride grafted to low density polyethylene (MAH-g-LDPE), maleic anhydride grafted to high density polyethylene (MAH-g-HDPE), maleic anhydride grafted to linear low density polyethylene (MAH-g-LLDPE), acrylic acid grafted to polypropylene (AA-g-PP), glycidyl methacrylate grafted to polypropylene (GMA-g-PP), maleic anhydride grafted to polypropylene (MAH-g-PP), maleic anhydride grafted to ethylene/propylene terpolymer (MAH-g-EPDM), maleic anhydride grafted to ethylene/propylene rubber (MAH-g-EPM) and maleic anhydride grafted to polyethylene/polypropylene copolymer (MAH-g-PE/PP).

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**12. (currently amended):** A process according to claim 81, wherein the compatibiliser compound is a grafted styrene co- or terpolymer selected from the group consisting of styrene/acrylonitrile grafted with maleic anhydride (SAN-g-MAH), styrene/maleic anhydride/methyl methacrylate, styrene/butadiene/styrene block copolymer grafted with maleic anhydride (SBS-g-MAH), styrene/ethylene/propylene/styrene block copolymer grafted with maleic anhydride (SEPS-g-MAH), styrene/ethylene/butadiene/styrene block copolymer grafted with maleic anhydride (SEPS-g-MAH) and acrylic acid/polyethylene/polystyrene terpolymer (AA-PE-PS-terpolymer).

**13. (currently amended):** A process according to claim 81, wherein the compatibiliser compound is a vinyl alcohol copolymer.

**14. (cancelled).**

**15. (original):** A process according to claim 1, wherein the polymers to be stabilised are recycled material.

**16-17. (cancelled).**